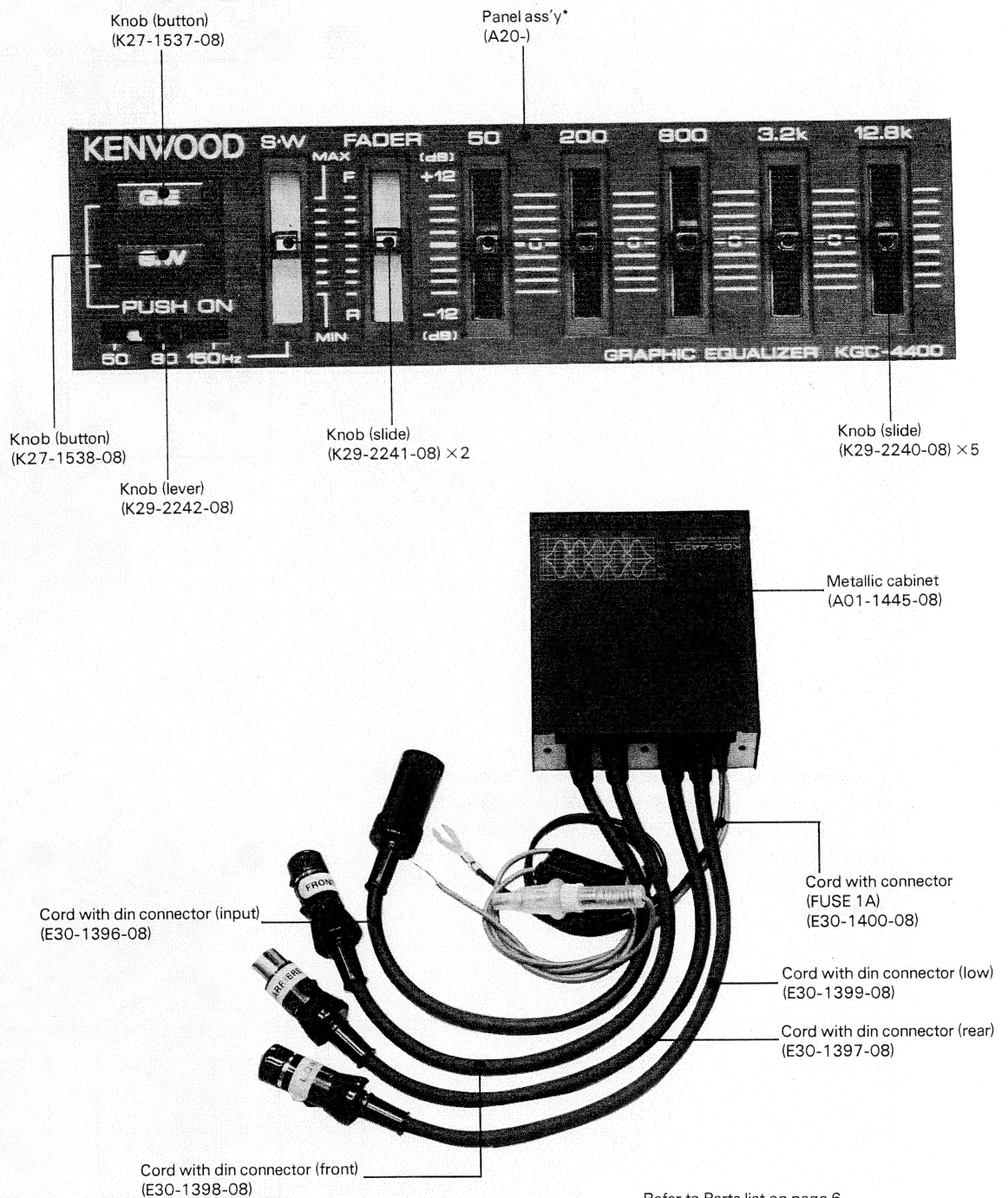


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KGC-4400

GRAPHIC EQUALIZER

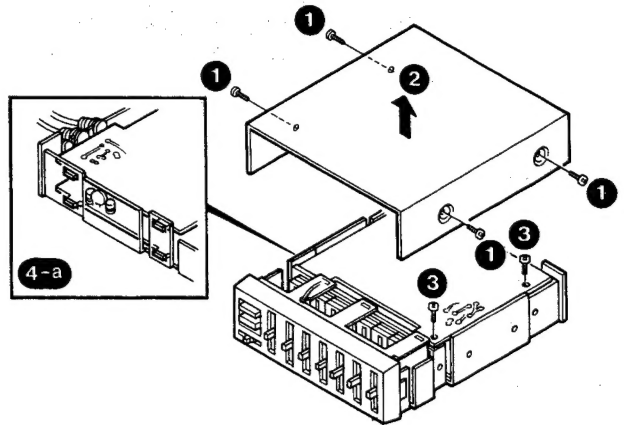


Refer to Parts list on page 6

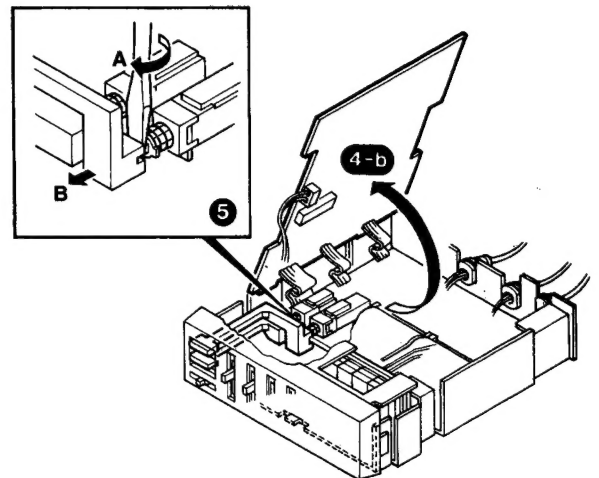
KGC-4400

DISASSEMBLY FOR REPAIR

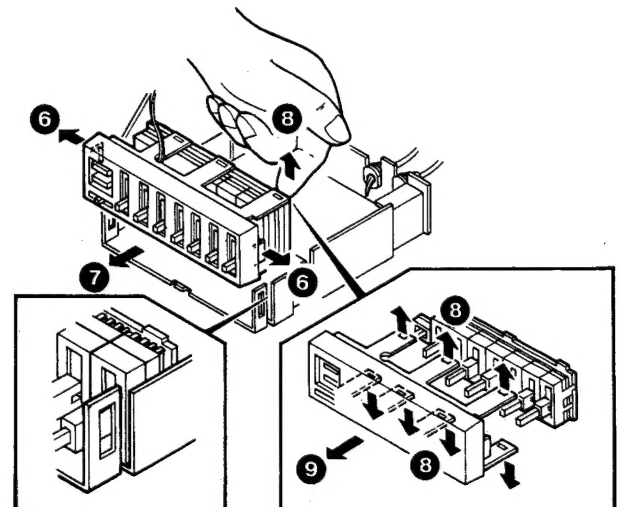
Remove metallic cabinet (1 and 2), remove 2 screws (3). Release Main pcb (B/2) from chassis (—this pcb's projection is inserted in chassis (4-a and 4-b)).



Remove 2 knobs from switches (G.E. S.W) (5).



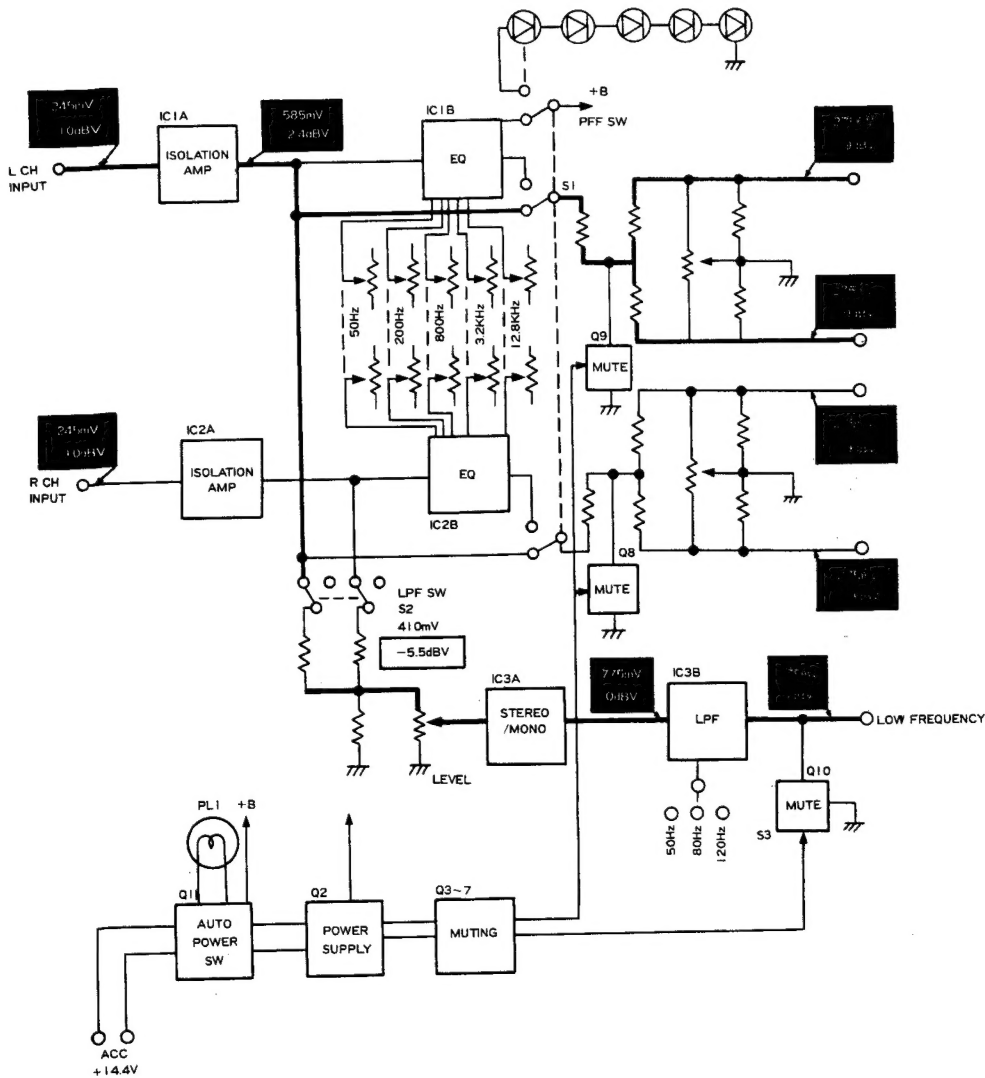
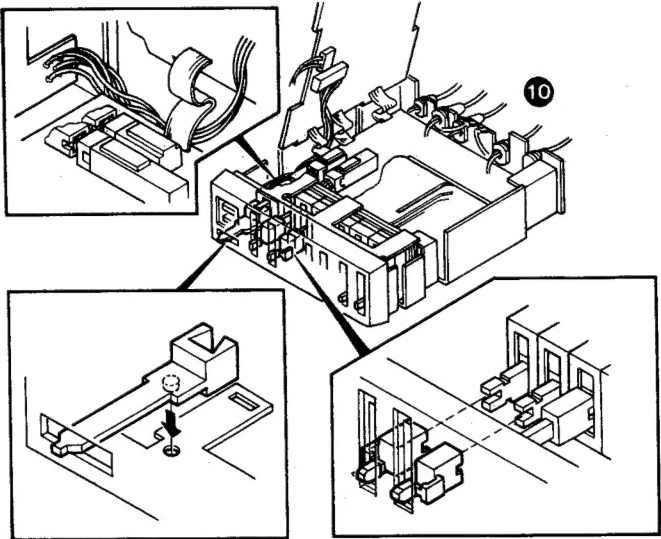
Draw out front panel onward slowly while removing both-side panel's hooks from chassis carefully (6 and 7). Remove 3 top-side hooks from Volume pcb's projection, then 4 bottom-side hooks (8). Pull front panel onward, holding Volume pcb side with hand (9).



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DISASSEMBLY FOR REPAIR/BLOCK DIAGRAM

This figure (10) shows the caution concerning 3 knobs (FADER, S.W F select, S.W out) and wiring between S.W F select switch and Main pcb, when KGC-4400 is assembled.



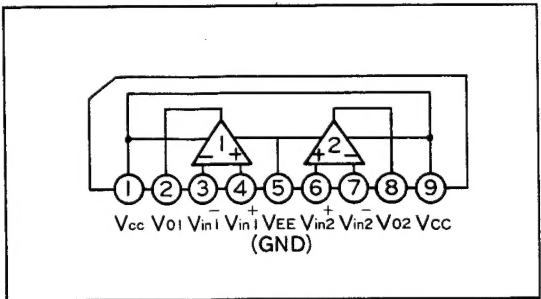
CIRCUIT DESCRIPTION

Description of components
Main unit (W02-0662-08)

| Components | Function | Operation |
|------------|---|--------------------------------------|
| Q1 | Lamp and LED driver | ON when pin 3 of DIN (INPUT) is "H". |
| Q2 | Ripple filter | |
| Q3 | Mute driver (ON/OFF comparator) | OFF when mute is turned ON. |
| Q4 | Mute driver (Switch for setting the OFF time) | ON when mute is turned ON. |
| Q5 | Mute driver (Switch for setting the ON time) | OFF when mute is turned ON. |
| Q6 | Mute driver (Inverter) | ON when mute is turned ON. |
| Q7 | Mute driver (Driver) | ON when mute is turned ON. |
| Q8, 9, 10 | Mute switch | ON when mute is turned ON. |
| Q11 ~20 | Semiconductor inductor | |
| IC1A | Isolation amp. | |
| IC2A | Isolation amp. | |
| IC1B | EQ. amp. | |
| IC2B | EQ. amp. | |
| IC3A | Stereo/mono switch for sub-woofer system | |
| IC3B | L.P.F. | |

IC1A ~IC3B: AN6557

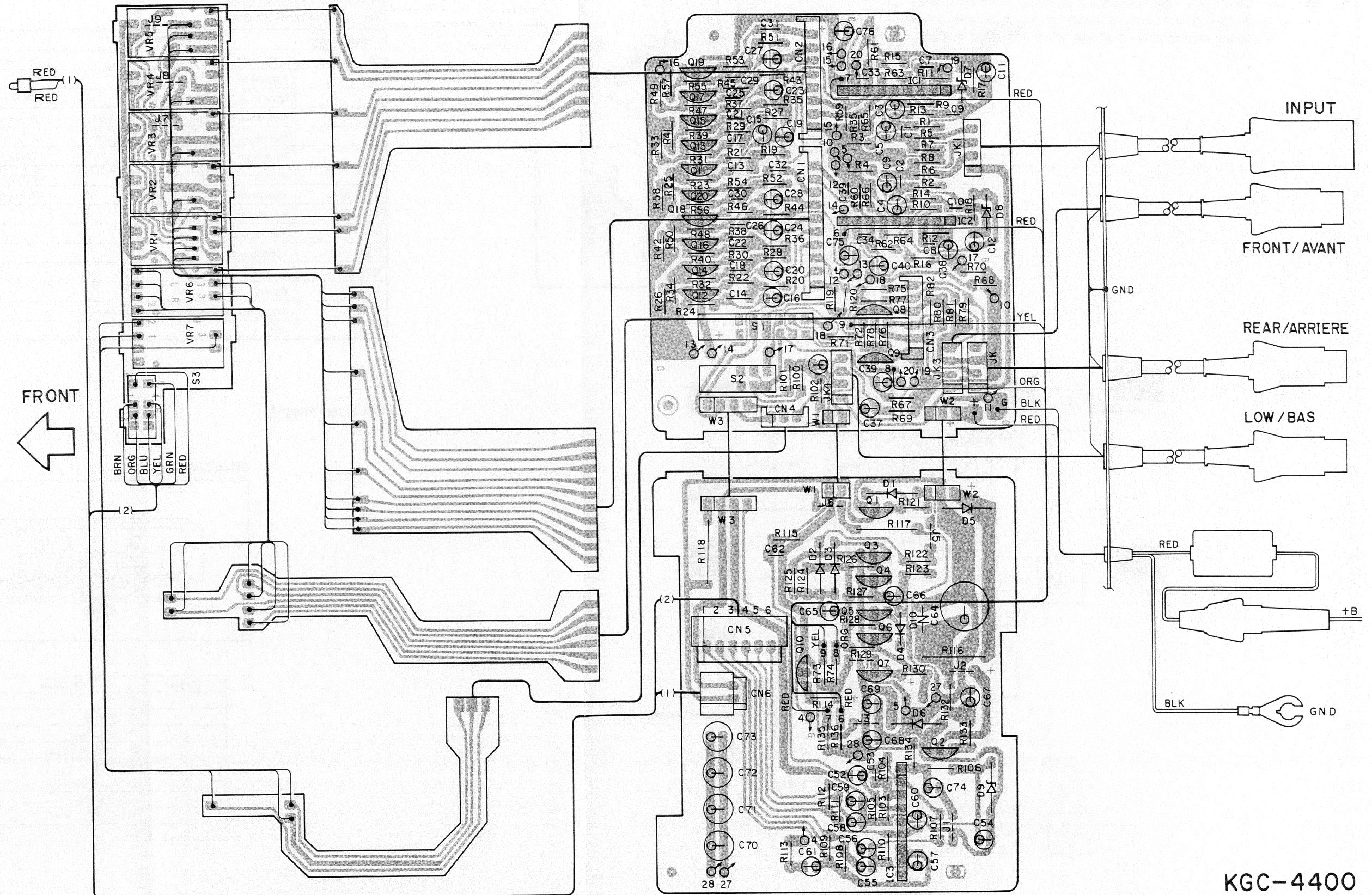
Block Diagram



| Pin No. | Pin Name |
|---------|-----------------------|
| 1 | Vcc |
| 2 | Ch.1 Output |
| 3 | Ch.1 Invert Input |
| 4 | Ch.1 Non Invert input |
| 5 | VEE (GND) |
| 6 | Ch.2 Non Invert Input |
| 7 | Ch.2 Invert Input |
| 8 | Ch.2 Output |
| 9 | Vcc |

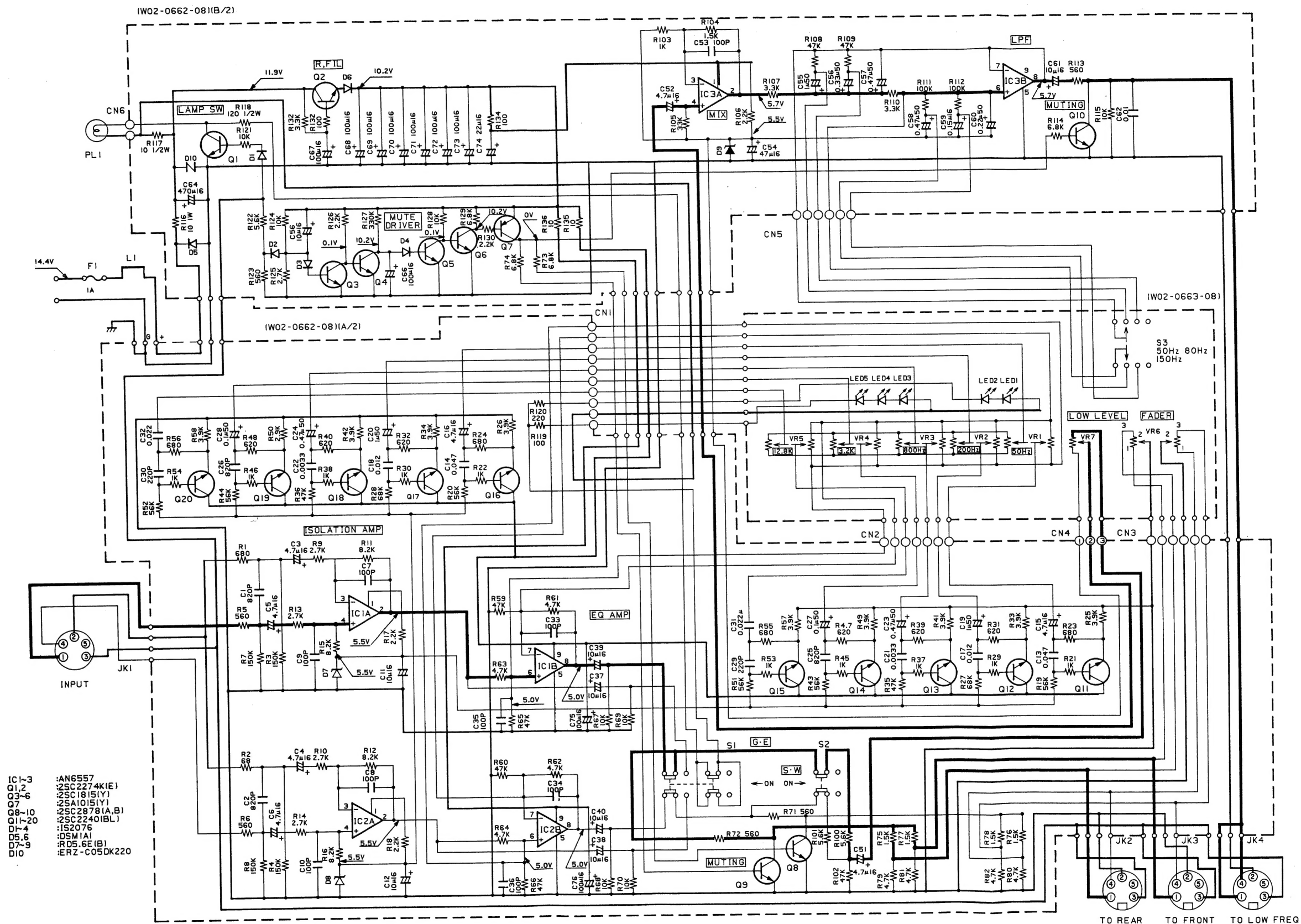
KGC-4400 KGC-4400

PC BOARD



KGC-4400

Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewed from the side easy to check.



Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

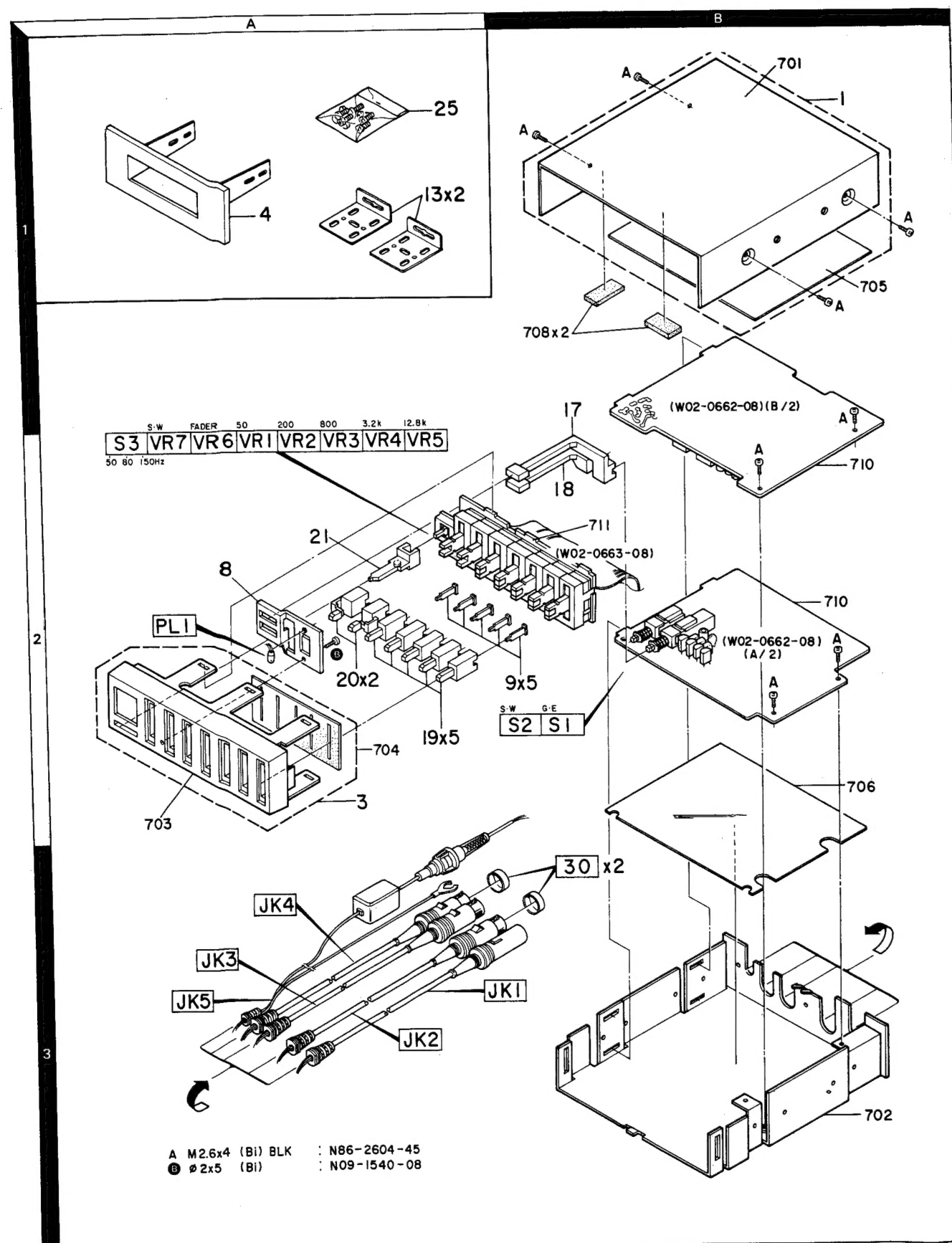
- DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

KGC-4400(K)

KGC-4400
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KGC-4400 KGC-4400

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

✱ New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le **Parti No.** ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

| Ref. No. | Address | New Parts | Parts No. | Description | Destination | Remarks |
|--------------------------------|---------|-----------|--------------|------------------------------|-------------|---------|
| 参照番号 | 位置 | 新 | 部品番号 | 部品名 / 規格 | 仕向 | 備考 |
| KGC-4400 | | | | | | |
| 1 | 1B | | A01-1445-08 | METALLIC CABINET ASSY | K T | |
| 3 | 2A | | A20-4616-08 | PANEL ASSY | | |
| 3 | 2A | | A20-4617-08 | PANEL ASSY | | |
| 4 | 1A | | A21-0474-08 | DRESSING PANEL | | |
| 8 | 2A | | B11-0107-08 | LIGHTING PLATE (A) | K T K | |
| 9 | 2B | | B19-0376-08 | LIGHTING PLATE (B) | | |
| - | | | B46-0100-08 | WARRANTY CARD | | |
| - | | | B46-0123-00 | WARRANTY CARD | | |
| - | | | B50-5842-00 | INSTRUCTION MANUAL | T | |
| - | | | B50-5990-00 | INSTRUCTION MANUAL | | |
| - | | | H01-5639-08 | ITEM CARTON BOX | | |
| - | | | H03-0767-08 | OUTER PACKING CASE | | |
| - | | | H10-1821-08 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | | H12-0194-08 | PACKING FIXTURE | | |
| - | | | H25-0239-08 | PROTECTION BAG | | |
| 13 | 1A | | J21-3693-08 | MOUNTING HARDWARE | | |
| 17 | 2A | | K27-1537-08 | KN0B (BTN) G.E | | |
| 18 | 2A | | K27-1538-08 | KN0B (BTN) S.W | | |
| 19 | 2A | | K29-2240-08 | KN0B (SLIDE) EQ(50 -12.8KHZ) | | |
| 20 | 2A | | K29-2241-08 | KN0B (SLIDE) S.W OUT,FADER | | |
| 21 | 2A | | K29-2242-08 | KN0B (LEVER) S.W F SELECT | | |
| 25 | 1A | | N99-0201-08 | SCREW SET | | |
| B | 2A | | N09-1540-08 | SCREW (BI-TAP) Ø2X5 | | |
| MAIN UNIT (W02-0662-08) | | | | | | |
| PL1 | 2A | | B30-1110-08 | LAMP | | |
| C1 ,2 | | | CK45B1H821K | CERAMIC 820PF | K | |
| C3 -6 | | | CE04CW1C4R7M | ELECTR0 4.7UF | 16WV | |
| C7 -10 | | | CC45SL1H101J | CERAMIC 100PF | J | |
| C11 ,12 | | | CE04CW1C100M | ELECTR0 10UF | 16WV | |
| C13 ,14 | | | CF92V1H473J | MF 0.047UF | J | |
| C15 ,16 | | | CE04CW1C4R7M | ELECTR0 4.7UF | 16WV | |
| C17 ,18 | | | CF92V1H123J | MF 0.012UF | J | |
| C19 ,20 | | | CE04CW1H010M | ELECTR0 1.0UF | 50WV | |
| C21 ,22 | | | CF92V1H332J | MF 3300PF | J | |
| C23 ,24 | | | CE04CW1HR47M | ELECTR0 0.47UF | 50WV | |
| C25 ,26 | | | CK45B1H821K | CERAMIC 820PF | K | |
| C27 ,28 | | | CE04CW1H0R1M | ELECTR0 0.1UF | 50WV | |
| C29 ,30 | | | CK45B1H221K | CERAMIC 220PF | K | |
| C31 ,32 | | | CF92V1H223J | MF 0.022UF | J | |
| C33 -36 | | | CC45SL1H101J | CERAMIC 100PF | J | |
| C37 -40 | | | CE04CW1C100M | ELECTR0 10UF | 16WV | |
| C51 ,52 | | | CE04CW1C4R7M | ELECTR0 4.7UF | 16WV | |
| C53 | | | CC45SL1H101J | CERAMIC 100PF | J | |
| C54 | | | CE04CW1C470M | ELECTR0 47UF | 16WV | |
| C55 | | | CE04CW1H010M | ELECTR0 1.0UF | 50WV | |
| C56 | | | CE04CW1HR33M | ELECTR0 0.33UF | 50WV | |
| C57 ,58 | | | CE04CW1HR47M | ELECTR0 0.47UF | 50WV | |
| C59 | | | CS15E1VR15M | TANTAL 0.15UF | 35WV | |
| C60 | | | CE04CW1HR22M | ELECTR0 0.22UF | 50WV | |
| C61 | | | CE04CW1C100M | ELECTR0 10UF | 16WV | |

E: Scandinavia & Europe H: Audio Club K: USA

P: Canada

S: South Africa T: England U: PX(Far East, Hawaii)

UE : AAFES(Europe) X: Australia M: Other Areas

⚠ indicates safety critical components.

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|---------------------------|---------------|-------------------|-------------------|---------------------------------|------------------------|--------------------|
| C62 | | | CF92V1H103J | MF 0.010UF J | | |
| C64 | | | CE04DW1C471M | ELECTR 470UF 16WV | | |
| C65 | | | CE04CW1C100M | ELECTR 10UF 16WV | | |
| C66 -73 | | | C90-1263-05 | ELECTR 100UF 16WV | | |
| C74 | | | CE04CW1C220M | ELECTR 22UF 16WV | | |
| C75 ,76 | | | C90-1263-05 | ELECTR 100UF 16WV | | |
| JK1 | 3B | | E30-1396-08 | CORD WITH DIN CONNECTOR (INPUT) | | |
| JK2 | 3B | | E30-1398-08 | CORD WITH DIN CONNECTOR (REAR) | | |
| JK3 | 3B | | E30-1397-08 | CORD WITH DIN CONNECTOR (FRONT) | | |
| JK4 | 3B | | E30-1399-08 | CORD WITH DIN CONNECTOR (LOW) | | |
| JK5 | 3B | | E30-1400-08 | CORD WITH CONNECTOR (FUSE 1A) | | |
| 30 | 3B | | F29-0046-05 | DIN CONNECTOR CAP | | |
| R116 | | | RS14DB3A100J | FL-PROOF RS 10 J 1W | | |
| R117 | | | RD14BB2H100J | RD 10 J 1/2W | | |
| R118 | | | RD14BB2H121J | RD 120 J 1/2W | | |
| S1 | 1B | | S40-2346-08 | PUSH SWITCH (G.E) | | |
| S2 | 1B | | S40-4069-08 | PUSH SWITCH (S.W) | | |
| D1 -4 | | | 1S2076 | DIODE | | |
| D5 ,6 | | | DSM1A1 | DIODE | | |
| D7 -9 | | | RD5.6E(B) | ZENER DIODE | | |
| IC1 -3 | | | AN6557 | IC (8P AMP X2) | | |
| Q1 ,2 | | | 2SC2274K(E) | TRANSISTOR | | |
| Q3 -6 | | | 2SC1815(Y) | TRANSISTOR | | |
| Q7 | | | 2SA1015(Y) | TRANSISTOR | | |
| Q8 -10 | | | 2SC2878(A,B) | TRANSISTOR | | |
| Q11 -20 | | | 2SC2240(BL) | TRANSISTOR | | |
| VOLUME UNIT (W02-0663-08) | | | | | | |
| VR1 -5 | 1A | | R13-3028-08 | POTENTIOMETER (20KBX2) EQ | | |
| VR6 | 1A | | R13-3029-08 | POTENTIOMETER (10KWX2) FADER | | |
| VR7 | 1A | | R13-3030-08 | POTENTIOMETER (10KBX2) S.W OUT | | |
| S3 | 1A | | S31-2098-08 | SLIDE SWITCH (S.W F SELECT) | | |

E: Scandinavia & Europe H: Audio Club K: USA

P: Canada

S: South Africa

T: England

U: PX (Far East, Hawaii)

UE: AAFES (Europe)

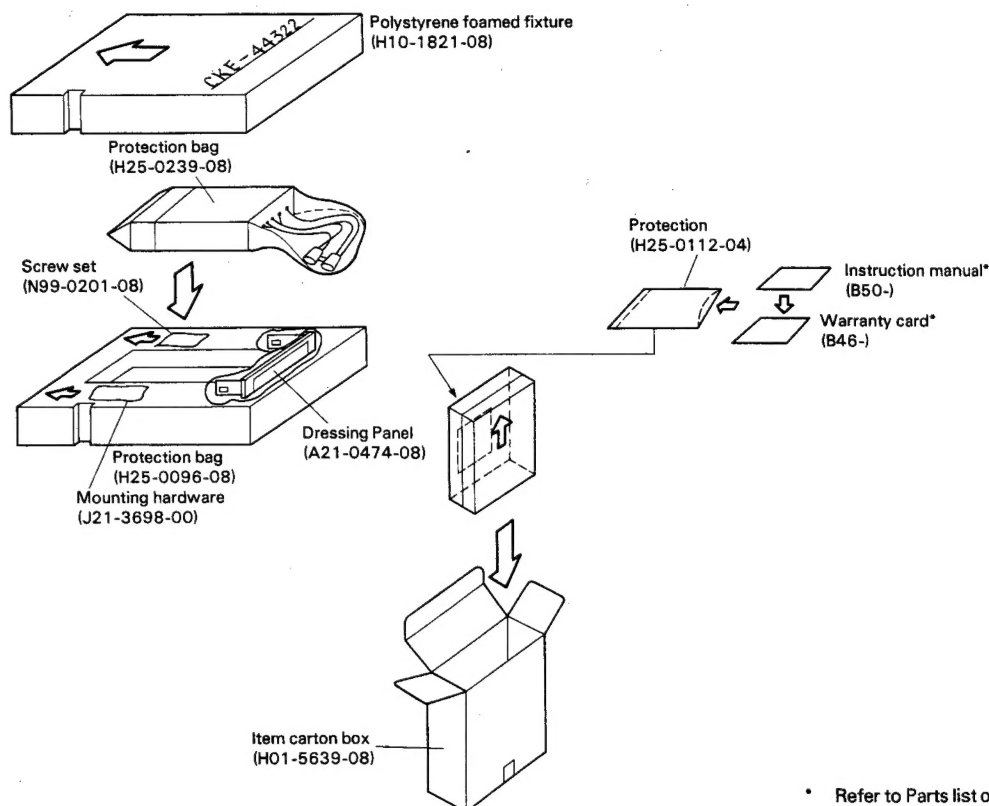
X: Australia

M: Other Areas

⚠ indicates safety critical components.

KGC-4400

PACKING/SPECIFICATIONS



* Refer to Parts list on page 6

SPECIFICATIONS

Specifications subject to change without notice

Equalizer Section

| | |
|-----------------------------|---|
| Equalizer Center Frequency | 50 Hz, 200 Hz, 800 Hz, 3.2 kHz, 12.8 kHz |
| Equalization Range | ± 12 dB |
| Subwoofer Cut-off Frequency | 50 Hz, 80 Hz, 150 Hz |
| Subwoofer Output Gain | $-\infty \sim +10$ dB |
| Subwoofer Cut-off Slope | 12 dB/oct |

Audio Section

| | |
|-----------------------|-------------------------|
| Input Impedance | 10k Ω |
| Output Impedance | 600 Ω |
| Signal to Noise Ratio | 100 dB |
| T.H.D. | 0.01% |
| Frequency Response | 20 Hz~60 kHz (-3 dB) |
| Gain | 0 dB |

General

| | |
|---------------------------|---|
| Operating Voltage | 14.4 V (11~16 V) |
| Current Consumption (MAX) | 120 mA |
| Dimensions | 89 (W) \times 25 (H) \times 110 (D) |
| Weight | 0.4 kg |

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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